

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
 required to respond to a collection of information unless it contains a valid OMB

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/APTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet	1	of	1
-------	---	----	---

Complete if Known

Application Number	10/715,047
Filing Date	Dec. 11/17/2003
First Named Inventor	Chen
Art Unit	21231
Examiner Name	WYROZEBSKI
Attorney Docket Number	AF-588

Confirmation No.: 7.008

U.S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

[illegible]

**Examiner
Signature**

Date Considered

June 22, 2000

*EXAMINER: Initial if reference considered; otherwise, or not citation is in conformance with MPEP 609. Draw line through citation # not in conformance and not considered. ~~Exhibit~~ ^{Attach} copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20230. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20590.**

Under the
control

Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB

PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0851-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

1

of

2

Complete if Known

Application Number 10/715,087
Filing Date 11/17/2003
First Named Inventor Chen
Art Unit 1731
Examiner Name WYRZYBSKI
Attorney Docket Number A01588

Confirmation No.: 7008

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
KIM		US- 5,646,207	07-08-1997	Schell	
		US- 5,670,585	09-23-1997	Taylor et al.	
		US- 5,718,728	02-17-1998	Arkens et al.	
		US- 5,840,822	11-24-1998	Lee et al.	
		US- 5,858,549	01-12-1999	Kielbania, Jr. et al.	
		US- 5,932,689	08-03-1999	Arkens et al.	
		US- 5,932,665	08-03-1999	DePorter et al.	
		US- 5,977,224	11-02-1999	Cheung et al.	
		US- 5,977,232	11-02-1999	Arkens et al.	
		US- 6,136,916	10-24-2000	Arkens et al.	
		US- 6,194,512	02-27-2001	Chen et al.	
		US- 6,207,737	03-27-2001	Schell et al.	
		US- 6,221,973	04-24-2001	Arkens et al.	
		US- 6,241,780	06-05-2001	Arkens et al.	
		US- 5,500,315	3/19/1996	Calvert et al.	
		US- 5,503,767	4/2/1996	Schwartz	
		US- 5,663,224	9/2/1997	Emmons et al.	
		US- 6,207,780	3/27/2001	Stockhausen et al.	
		US- 6,271,898	8/7/2001	Clikeman et al.	
		US- 5,578,371	11/26/1996	Taylor et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	7 ⁸
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				

Examiner
Signature

[Signature]

Date
Considered

June 22/2004

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Substitute for Form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet	2	of	2
-------	---	----	---

Complete if Known

Application Number 10/715,087

Filing Date: 11/17/2003

First Named Inventor	Chen
----------------------	------

Art Unit	173
----------	-----

Examiner Name	J. V. TOZEBSKI
---------------	----------------

Attorney Docket Number 2. A01588

Confirmation No.: 7008

U.S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

[illegible]

**Examiner
Signature**

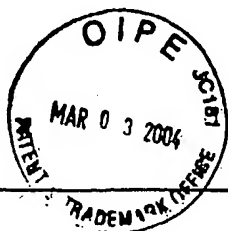
Date Considered

Date Considered

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 808. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional).² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 501.04.³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.⁶ Applicant is to place a check mark here, if the English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.**



Sheet 1 of 1

LIST OF ART CITED BY APPLICANT

(Use several sheets if necessary)

Atty Docket No.

A01588

Serial No.

10/715,087

Applicant

Chen et al.

Filing Date

November 17, 2003

Group

1731

U.S. Patent Documents

EXAMINER INITIALS		DOCUMENT NUMBER	DATE	NAME	Class/Subclass	FILING DATE IF APPROPRIATE
KIW	AA	6,071,994	06/06/2000	Hummerich et al.		
	AB					
	AC					
	AD					
	AE					
	AF					
	AG					
	AH					
	AI					
	AJ					
	AK					

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	Class/Subclass	Translation Yes/No
	AL					
	AM					
	AN					

OTHER ART (Including Author, Title, Date, Pertinent Patents, etc.)

	AO	International Programme On Chemical Safety; "Man-made Mineral Fibres"; IPCS IINCHEM HOME; (EHC 77, 1988) http://www.incehm.org/documents/ehc/ehc/ehc77.htm
	AR	76 Lubricants Company; Production Application Sheet
	AS	
	AT	

Examiner

Katherine H. H. H. H.

Date Considered

June 22/2004

*EXAMINER: Initial reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not conformance and not considered. Include copy of this form with next communication to applicant.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

7 Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known Application Number <u>10/715,087</u> Filing Date <u>11/17/2003</u> First Named Inventor <u>Chen</u> Art Unit <u>1731</u> Examiner Name <u>Wyrozebski</u> Attorney Docket Number <u>A01588</u>	
Sheet	1	of	2	Confirmation No.: <u>7008</u>	

U.S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

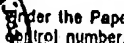
[illegible]

Examiner Signature	<i>Natanele Wierzbicki</i>	Date Considered	<i>June 22, 2004</i>
--------------------	----------------------------	-----------------	----------------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). ² See Kinda Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.**



Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
 required to respond to a collection of information unless it contains: 1. A valid OMB

Substitute for form 1449A/PTO

(use as many sheets as necessary)

Sheet	2	of	2
-------	---	----	---

Complete if Known

Application Number	10/715087
--------------------	-----------

Filing Date	11/17/2003
-------------	------------

First Named Inventor	Chen
----------------------	------

Art Unit	173
----------	-----

Examiner Name	Wyrozebski
---------------	------------

Attorney Docket Number .. A01588

Confirmation No.: 7008

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS						T ⁶
Examiner Initials ¹	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³	Number ⁴ - Kind Code ⁵ (if known)			
KHL KPH		EP	583 086	02-16-1994	Arkens et al.	
		EP	651 088	05-03-1995	Egolf et al.	
		EP	748 777	12-18-1996	Taylor et al.	
		EP	990 728	04-05-2000	DePorter et al.	
		EP	990 727	04-05-2000	Taylor et al.	
		WO	01/10953	02-15-2001	Helbing	
		WO	01/96460	12-20-2001	Husemoen	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. 1	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Country Code 3	Number 4 - Kind Code 5 (if known)				
DHL ↓ KPH		EP	583 086	02-16-1994	Arkens et al.		
		EP	651 088	05-03-1995	Egolf et al.		
		EP	748 777	12-18-1996	Taylor et al.		
		EP	990 728	04-05-2000	DePorter et al.		
		EP	990 727	04-05-2000	Taylor et al.		
		WO	01/10953	02-15-2001	Helbing		
		WO	01/96460	12-20-2001	Husemoen		

**Examiner
Signature**

Date Considered

June 22, 2004

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 608. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.**

+

+

Substitute for form 1449A/PTO

(use as many sheets as necessary)

Complete if Known

Application Number	18/715,087
Filing Date	11/27/2003
First Named Inventor	Chen
Group Art Unit	1736
Examiner Name	WYROZEBSKI
Attorney Docket Number	A01588

Sheet	1	of	1
-------	---	----	---

Confirmation No.

U.S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

[illegible]

Examiner
Signature

Date
Considered

June 22 / 2000

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Under the Paperwork Reduction Act of 1995, no

Substitute for form 1449A/PTO

(use as many sheets as necessary)

Sheet	1	of	1
-------	---	----	---

Application Number 10/715,087

Filing Date 11/17/2003

First Named Inventor	Chen
----------------------	------

Group Art Unit	1731
----------------	------

Examiner Name WYROZEBSKI

Attorney Docket Number AO1588

Confirmation No. 7008

[illegible][illegible]

**Examiner
Signature**

Date _____

Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 18 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.